## Correction (1-x).loo% CI Statt 21-a.SE

holds for either known 5D of box or fairly large " Hof draws, 7100 for sove fire

> Hy pothesis Testing

Null hypothesis:

Ho, typically we make this restrictive

So possible to easily Lerive results "under" tre null.

Alt hypothesis

Hi or Ha generally

(or plevent of Ho.

Ho: u =0

HI: MZD

Rules of hypoth testing

Reductio ad absordur

- 1. Assure noll
- 2. Find some thing about data under null (corpute statistic)
- 3. See if this statistiz

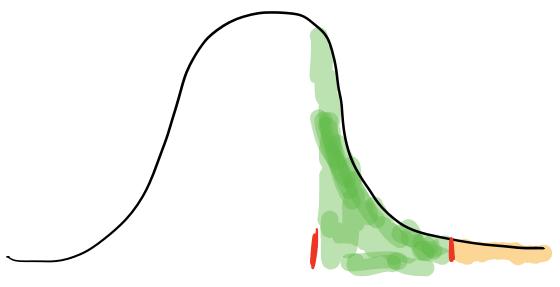
  would realistically

  be generated onder

  all (p-value)
- d. If it is fail to reject noll

  If it is not reject noll

P-value is the probability of seeing an as extreme or more extreme result given the null hypothesis



There is a doulity
between confidence
interval and hypothesis
testing.

(1-2) "106% CI It ue use p-value (tus-sided) cutoff of of (typically 0.05) then under certain regularity conditions P-value < if and only it the Statistic falls outside Of (1-2). Confidence interval.